44

RAW SEQUENCE LISTING PATENT APPLICATION US/09/316,163

DATE: 08/17/1999

TIME: 17:55:22

Input Set: I316163.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

```
<110> APPLICANT: The University of Leicester
1
                                                    ENTERED
     <120> TITLE OF INVENTION: Complement Inhibitor
    <130> FILE REFERENCE: M96/0591/US
3
     <140> CURRENT APPLICATION NUMBER: US/09/316,163
 4
    <141> CURRENT FILING DATE: 1999-05-21
5
     <160> NUMBER OF SEQ ID NOS: 14
 6
     <170> SOFTWARE: PatentIn Ver. 2.1
 7
8
     <210> SEO ID NO 1
9
     <211> LENGTH: 4229
10
     <212> TYPE: DNA
     <213> ORGANISM: Rattus sp.
11
     <400> SEQUENCE: 1
12
           tcqaqtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60
13
           ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120
14
           cagaaattct ctcaggttcg tggtctgaac aactatattc agaaggcact caggcaacct 180
15
           acaaatgccg ccctggatac cgaacacttg gtactattgt aaaagtatgc aagaatggag 240
16
           aatgggtacc ttctaaccca tcaaggatat gtcggaaaag gccatgtggg catcccggag 300
17
           acacaccctt tgggtccttt aggctggcag ttggatctga atttgaattt ggtgcaaagg 360
18
           ttgtttatac atgtgatgaa gggtaccaac tattaggtga aattgattac cgtgaatgtg 420
19
           atgcagatgg gtggaccaat gatattccaa tatgtgaagt tgtgaagtgc ttgccagtga 480
2.0
           21
           ttggacaggt ggtacgcttt gaatgcaact ccggcttcaa gattgaagga cagaaagaaa 600
22
           tgcactgctc ataaaatggc ctctggagca atgaaaagcc acagtgtgtg gaaatttctt 660
23
           gcctgccacc acgagttgaa aatggagatg gtatatatct gaaaccagtt tacaaggaga 720
24
           atgaaagatt ccaatataaa tgtaagcaag gttttgtgta caaagaaaga ggggatgctg 780
25
           tctgcacggg ttctggatgg aatcctcagc cttcctgtga agaaatgaca tgtttgactc 840
26
           catatattcc aaatggtatc tacacacctc acaggattaa acacagaatt gatgatgaaa 900
2.7
           tcagatatga atgtaaaaat ggcttctatc ctgcaacccg atcacctgtt tcaaagtgta 960
28
           caattactgg ctggatccct gctccaagat gtagcttgaa accttgtgat tttccacaat 1020
29
           tcaaacatgg acgtctgtat tatgaagaaa gccggagacc ctacttccca gtacctatag 1080
30
           gaaaggagta cagctataac tgtgacaacg ggtttacaac gccttcacag tcatactggg 1140
31
           actaccttcg ttgcacagta aatgggtggg agcctgaagt tccatgcctc aggcaatgta 1200
32
           ttttccatta tgtggaatat ggagaatctt catactggca aagaagatat atagagggtc 1260
33
           agtctgcaaa agtccagtgt cacagtggct atagtcttcc aaatggtcaa gatacatatt 1320
34
           attgtacaga gaatggctgg tcccctcctc ccaaatgcgt ccgtatcaag acttgttcag 1380
35
           tatcagatat agaaattgaa aatgggtttt tttctgaatc tgattataca tatgctctaa 1440
36
           atagaaaaac acggtataga tgtaaacagg gatatgtaac aaataccgga gaaatatcag 1500
37
           gaataattac ttgtcttcaa gatggatggt cacctcgacc ctcatgcatt aagtcttgtg 1560
38
           atatgcctgt atttgagaat tctatgacta agaataataa cacatggttt aaactcaatg 1620
39
           acaaattaga ctatgaatgt cacattggat atgaaaatga atataaacat accaaaggct 1680
40
           ctataacatg tacttatgat ggatggtcta gtacaccctc ctgttatgaa agagaatgca 1740
41
           qcattcccct gttacaccaa gacttagttg tttttcccag agaagtaaaa tacaaagttg 1800
42
           gagattcgtt gagtttctct tgccgttcag gacacagagt tggagcagat ttagtgcaat 1860
43
           gctaccactt tggatggtcc cctaatttcc caacgtgtga aggccaagta aaatcatgtg 1920
```

PAGE: 2

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/316,163

Input Set: I316163.RAW

DATE: 08/17/1999

TIME: 17:55:22

accaacctct tgaaatcccg aatggggaaa taaagggaac aaaaaaagtt gaatacagcc 1980 45 atggtgacgt ggtggaatat gattgcaaac ctagatttct actgaaggga cccaataaaa 2040 46 tccagtgtgt tgacgggaag tggacaaggt tgccgatatg cgttgagtat gagagaacat 2100 47 gtggagacet teetgaactt gageatgget etgteaagtt atetgteeet ecetaecate 2160 48 atggagattc agtggagttc acttgtacag aaaccttcac aatgattgga catgcagtag 2220 49 ttttctgcat tagtggaagg tggaccgagc ttcctcaatg tgttgcaaca gatcaactgg 2280 50 agaagtgtaa agccccgaag tcaactggca tagatgcaat tcatccaaat aagaatgaat 2340 51 ttaatcataa ctttagtgtg agttacagat gtagacaaaa gcaggagtat gaacattcaa 2400 52 tctgcatcaa tggaagatgg gatcctgaac caaactgtac aagcaaaaga ttctgccctc 2460 53 ctccccgca gattccaaat gcccaagtga ttgaaaccac cgtgaaatac ttggatggag 2520 54 aaaaagtatc tgttctttgc caagatggtt acctaactca gggcccagaa gaaatggtgt 2580 55 gtaaacatgg aaggtggcag tcgttaccac gctgcacgga aaaaattcca tgttcccagc 2640 56 cccctaaaat tgaacatgga tctattaagt cgcccaggtc ctcagaagag aggagagatt 2700 57 taattgagtc cagcagttat gaacacggaa ctacattcag ctattgctgt agagatggat 2760 58 tcaagatatc tgaagaaaat agggtaacct gcaacatggg aaaatggagc tctctgcctc 2820 59 gttgtgttgg aataccttgt ggacccccac cttcaattcc tcttggtatt gtttctcatg 2880 60 aactagaaag ttaccaatat ggagaggagg ttacatacaa ttgttctgaa ggctttggaa 2940 61 ttgatggacc agcatttatt aaatgtgtag gaggacagtg gtctgaacct cccaaatgca 3000 62 63 aaaaatcata caggtcagga gaacaagtga cattcagatg tccacctccg tatcgaatgg 3120 64 atggctctga cattgtcaca tgtgttaata cgaagtggat tggacagccg gtatgcaaag 3180 65 ataatteetg tgtgaateea eeacatgtge caaatgetae tataetaaca aggeacaaga 3240 66 ctaaatatcc atctggtgac aaagtacgtt atgactgtaa taaacctttt gaattatttg 3300 67 gggaagtgga agtgatgtgc caaaacggga tttggacaga accaccgaaa tgcaaagatt 3360 68 caacagggaa atgtgggcct cctccaccta ttgacaatgg agacatcacc tccttgtcat 3420 69 taccagtata tgcaccatta tcatcagttg aatatcaatg ccagaactat tatctactta 3480 70 agggaaataa gatagtaaca tgtagaaatg gaaagtggtc tcagccacca acctgcttac 3540 71 atgcatgtgt gataccagaa gatattatgg aaaaacataa tatagttctc agatggaggg 3600 72 aaaatqcaaa gatttattcc caatcagggg agaatattga attcatgtgt aaacctggat 3660 73 atagaaaatt cagaggatca cctccgtttc gtacaaagtg cattgagggt cacatcaatt 3720 74 atcccacttg tgtataaaat cgctatacaa ttattagtaa accttatgga tgagaaatgc 3780 75 acatgtatat tactaataca gtttgaattt acatttaaat attgtttagc tcatttcctc 3840 76 taataagtat ataaactttt tttatatggt ggttaatcag taactttaca gactgttgcc 3900 77 acaaagcaag aacattacat tcaaaactcc taatccaaat atgatatgtc caaggacaaa 3960 78 ctatgtctaa gcaagaaaat aaatgttagt tcttcaatgt ctgtttttat tcaggacctt 4020 79 tcagattttc ttggatacct tttgttaggt tctgattcac agtgagtgga agacacactg 4080 80 actctgactt caaattagta ttacttgcaa tacattaaca accaaactat cataatatca 4140 81 caaatgtata cagctaatta ctgtgtccta cctttgtatc aataaagaaa tctaagaaag 4200 82 4229 ttcttgctta aaaaaaaaa aaaaaaaaa 83 84 <210> SEO ID NO 2 <211> LENGTH: 866 85 86 <212> TYPE: DNA <213> ORGANISM: Rattus sp. 87 <400> SEQUENCE: 2 88 tcgagtcaac tgctcccaga tagatccaag acatgagact gtcagcaaga attatttggc 60 89 ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120 90 cagaaattct ctcaggttcg tggtctgaac aactatattc agaaggcact caggcaacct 180 91 acaaatgccg ccctggatac cgaacacttg gtactattgt aaaagtatgc aagaatggag 240 92 aatgggtacc ttctaaccca tcaaggatat gtcggaaaag gccatgtggg catcccggag 300 93 acacaccctt tgggtccttt aggctggcag ttggatctga atttgaattt ggtgcaaagg 360 94

PAGE: 3 RAW SEQUENCE LISTING DATE: 08/17/1999

PATENT APPLICATION US/09/316,163 TIME: 17:55:22

Input Set: I316163.RAW

95		ttgtttatac	atgtgatgaa	gggtaccaac	tattaggtga	aattgattac	cgtgaatgtg	420
96		atgcagatgg	gtggaccaat	gatattccaa	tatgtgaagt	tgtgaagtgc	ttgccagtga	480
97		cagaactgga	gaatggaaga	attgtgagtg	gtgcagccga	accagaccag	gaatattatt	540
98		ttggacaggt	ggtacgcttt	gaatgcaact	ccggcttcaa	gattgaagga	cagaaagaaa	600
99		tgcactgctc	ataaaatggc	ctctggagca	atgaaaagcc	acagtgtgtg	gaaatttctt	660
100		gcctgccacc	acgagttgaa	aatggagatg	gatatagaaa	attcagagga	tcacctccgt	720
101		ttcgtacaaa	gtgcattgag	ggtcacatca	attatcccac	ttgtgtataa	aatcgctata	780
102							atattactaa	
103			atttacattt					866
104	<210>	SEQ ID NO		_				
105	<211>	LENGTH: 2715						
106	<212>	TYPE: DNA						
107	<213>	ORGANISM: I	Rattus sp.					
108		SEQUENCE: 3	_					
109		• •		tagatccaag	acatgagact	gtcagcaaga	attatttggc	60
110							agagaaaatt	
111							caggcaacct	
112							aagaatggag	
113							catcccggag	
114							ggtgcaaagg	
115							cgtgaatgtg	
116		-					ttgccagtga	
117							gaatattatt	
118							cagaaagaaa	
119							ttgaaacctt	
120							agaccctact	
121							acaacgcctt	
122							gaagttccat	
123							tggcaaagaa	
124							cttccaaatg	
125							tgcgtccgta	
126							gaatctgatt	
127							gtaacaaata	
128							cgaccctcat	
129							aataacacat	
130							aatgaatata	
131							ccctcctgtt	
132							cccagagaag	
133							agagttggag	
134							tgtgaaggcc	
135							ggaacaaaaa	
136							tttctactga	
137							atatgcgttg	
138							aagttatctg	
139							ttcacaatga	
140							caatgtgttg	
141							gcaattcatc	
142							caaaagcagg	
143							tgtacaagca	
144							accaccgtga	
					=	-		

PAGE: 4 RAW SEQUENCE LISTING DATE: 08/17/1999

PATENT APPLICATION US/09/316,163 TIME: 17:55:22

Input Set: I316163.RAW

```
145
            aatacttgga tggagaaaaa gtatctgttc tttgccaaga tggttaccta actcagggcc 2220
            caqaaqaaat qqtqtqtaaa catggaaqgt gqcagtcgtt accacgctgc acggaaaaaa 2280
146
            ttccatgttc ccagccccct aaaattgaac atggatctat taagtcgccc aggtcctcag 2340
147
148
            aaqaqaqqaq aqatttaatt qaqtccaqca gttatgaaca cggaactaca ttcagctatt 2400
            gctgtagaga tggattcaag atatctgaag aaaatagggt aacctgcaac atgggaaaat 2460
149
            ggagetetet geetegttgt gttggaatae ettgtggaee eecacettea atteetettg 2520
150
            gtattgtttc tcatgaacta gaaagttacc aatatggaga ggaggttaca tacaattgtt 2580
151
            ctgaaggett tggaattgat ggaccagcat ttattaaatg tgtaggagga cagtggtetg 2640
152
            aacctcccaa atgcataaaa actgattgtg acaacttgcc cacatttgaa attgccaaac 2700
153
154
            cgacagaaaa gaaaa
155
      <210> SEQ ID NO 4
      <211> LENGTH: 1532
156
157
      <212> TYPE: DNA
158
      <213> ORGANISM: Rattus sp.
159
      <400> SEQUENCE: 4
            tegagteaac tgeteceaga tagateeaag acatgagaet gteageaaga attatttgge 60
160 ·
            ttatattatg gactgtttgt gtagcagaag attgtaaagg tcctcctcca agagaaaatt 120
161
            cagaaattct ctcaggttcg tggtctgaac aactatattc agaaggcact caggcaacct 180
162
            acaaatgccg ccctggatac cgaacacttg gtactattgt aaaagtatgc aagaatggag 240
163
            aatgggtacc ttctaaccca tcaaggatat gtcggaaaag gccatgtggg catcccggag 300
164
            acacaccett tgggteettt aggetggeag ttggatetga atttgaattt ggtgeaaagg 360
165
            ttgtttatac atgtgatgaa gggtaccaac tattaggtga aattgattac cgttatcgaa 420
166
            tqqatqqctc tqacattgtc acatgtgtta atacgaagtg gattggacag ccggtatgca 480
167
            aagataatto otgtgtgaat ocaccacatg tgocaaatgo tactatacta acaaggcaca 540
168
            agactaaata tccatctggt gacaaagtac gttatgactg taataaacct tttgaattat 600
169
170
            ttggggaagt ggaagtgatg tgccaaaacg ggatttggac agaaccaccg aaatgcaaag 660
            attcaacagg gaaatgtggg cetectecae etattgacaa tggagacate acetecttgt 720
171
            cattaccagt atatgcacca ttatcatcag ttgaatatca atgccagaac tattatctac 780
172
            ttaagggaaa taagatagta acatgtagaa atggaaagtg gtctcagcca ccaacctgct 840
173
            tacatgcatg tgtgatacca gaagatatta tggaaaaaca taatatagtt ctcagatgga 900
174
            gggaaaatgc aaagatttat teccaateag gggagaatat tgaatteatg tgtaaaeetg 960
175
            gatatagaaa attcagagga tcacctccgt ttcgtacaaa gtgcattgag ggtcacatca 1020
176
            attatcccac ttgtgtataa aatcgctata caattattag taaaccttat ggatgagaaa 1080
177
            tqcacatqta tattactaat acagtttgaa tttacattta aatattgttt agctcatttc 1140
178
            ctctaataag tatataaact ttttttatat ggtggttaat cagtaacttt acagactgtt 1200
179
            qccacaaaqc aagaacatta cattcaaaac tcctaatcca aatatgatat gtccaaggac 1260
180
181
            aaactatqtc taagcaagaa aataaatgtt agttcttcaa tgtctgtttt tattcaggac 1320
            ctttcagatt ttcttggata ccttttgtta ggttctgatt cacagtgagt ggaagacaca 1380
182
            ctgactctga cttcaaatta gtattacttg caatacatta acaaccaaac tatcataata 1440
183
            tcacaaatgt atacagctaa ttactgtgtc ctacctttgt atcaataaag aaatctaaga 1500
184
            aagttcttgc ttaaaaaaaa aaaaaaaaaa aa
                                                                               1532
185
186
      <210> SEQ ID NO 5
      <211> LENGTH: 27
187
      <212> TYPE: DNA
188
      <213> ORGANISM: Artificial Sequence
189
190
      <220> FEATURE:
      <223> OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
191
192
            primer
      <400> SEQUENCE: 5
193
                                                                               27
            ttcaagtaac gttagaagct taagatg
194
```

PAGE: 5

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/316,163 TIME: 17:55:22

Input Set: I316163.RAW

DATE: 08/17/1999

195 <210> SEQ ID NO 6 196 <211> LENGTH: 33 <212> TYPE: DNA 197 198 <213> ORGANISM: Artificial Sequence <220> FEATURE: 199 <223> OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide 200 201 primer <400> SEQUENCE: 6 202 33 203 ggcggccgct caaatcttct gagatatagg aga 204 <210> SEQ ID NO 7 205 <211> LENGTH: 33 206 <212> TYPE: DNA 207 <213> ORGANISM: Artificial Sequence 208 <220> FEATURE: <223> OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide 209 210 primer <400> SEQUENCE: 7 211 33 212 ggcggccgct catttaatcc ttaaaggtga gta 213 <210> SEQ ID NO 8 214 <211> LENGTH: 33 215 <212> TYPE: DNA 216 <213> ORGANISM: Artificial Sequence 217 <220> FEATURE: <223> OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide 218 219 primer 220 <400> SEQUENCE: 8 221 33 ggcggccgct catactggaa agtatggtct acg 222 <210> SEQ ID NO 9 223 <211> LENGTH: 207 224 <212> TYPE: PRT <213> ORGANISM: Homo sapiens 225 226 <400> SEQUENCE: 9 Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr 227 228 5 10 1 Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr 229 230 25 Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys 231 232 40 Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys 233 55 234 Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu 235 236 70 Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys 237 90 238 Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp 239 105 240 100 Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys 241 120 242 Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met 243 140 135 244

PÅGE: 6

VERIFICATION SUMMARY VERIFICATION SUMMARY

PATENT APPLICATION US/09/316,163

DATE: 08/17/1999
TIME: 17:55:22

Input Set: I316163.RAW

Line ? Error/Warning

Original Text